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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/07/2017

Lab ID	:	**CP-2018-12-27-124**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13
Agency	:	Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.
Customer's Reference	:	EE/DD/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-07-17
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/07/2017	20/07/2017	150.54 X 150.44 X 150.35	22647	8.312	394.1	17.4	17.6
2	Drain Concrete	M20	13/07/2017	20/07/2017	150.56 X 150.46 X 150.33	22653	8.331	398.7	17.6	
3	Drain Concrete	M20	13/07/2017	20/07/2017	150.52 X 150.48 X 150.37	22650	8.345	400.9	17.7	

Note:

The results pertain to the samples received and tested.
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

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TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2018-12-27-124**	**Date: 10-07-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13	
Agency	:	Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.	
Customer's Reference	:	EE/DD/LOA/ /2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-07-17	
Sample ID No	:	2018-11-22-53/05	
Sample Type/ Size	:	Ceramic tiles (300X300)mm	
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006	
Date of test	:	06-07-17	

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	12.04	12.01	12.08	12.04
2	300	300	300	300	12.01	12.03	12.01	12.01
3	300	300	300	300	12.03	12.01	12.03	12.03
4	300	300	300	300	12.06	12.05	12.08	12.06
5	300	300	300	300	12.08	12.01	12.05	12.08
6	300	300	300	300	12.03	12.07	12.03	12.07
7	300	300	300	300	12.01	12.01	12.01	12.01
8	300	300	300	300	12.02	12.01	12.04	12.01
9	300	300	300	300	12.04	12.04	12.02	12.04
10	300	300	300	300	12.04	12.01	12.05	12.04
Average	**300**		**300**		**12.04**			

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2018-12-27-124**	**Date: 14-07-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13	
Agency	:	Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.	
Customer's Reference	:	EE/DD/LOA/ /2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-07-17	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	10/07/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.02	165.51	2.864	7856	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

Note:

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-27-124 **Date: 20/07/2017**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13

Agency : Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.

Customer's Reference : EE/DD/LOA/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-07-17

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	13/07/2017	20/07/2017	150.44 X 150.58 X 150.41	22653	8.312	389.6	17.2	17.4
2	M20 Concrete	M20	13/07/2017	20/07/2017	150.41 X 150.56 X 150.47	22646	8.331	398.6	17.6	
3	M20 Concrete	M20	13/07/2017	20/07/2017	150.42 X 150.54 X 150.35	22644	8.345	394.0	17.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-12-27-124** **Date: 20/07/2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13
Agency	:	Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.
Customer's Reference	:	EE/DD/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-07-17
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	13/07/2017	20/07/2017	150.52 X 150.34 X 150.45	22629	8.312	389.2	17.2	17.5
2	M20 Concrete	M20	13/07/2017	20/07/2017	150.52 X 150.34 X 150.45	22629	8.331	398.3	17.6	
3	M20 Concrete	M20	13/07/2017	20/07/2017	150.52 X 150.44 X 150.35	22644	8.345	400.8	17.7	

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-27-124** **Date: 08-07-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward
Agency	:	Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.
Customer's Reference	:	EE/DD/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-07-17
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-12-27-124** **Date: 08-07-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13
Agency	:	Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.
Customer Reference	:	EE/DD/LOA/ /2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-07-17
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-07-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	_

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-12-27-124** **Date: 08-07-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13

Agency : Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.

Customer's Reference : EE/DD/LOA/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-07-17

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 05-07-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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